DOCUMENTATION NOTICE

RENAULT

80 - 00 - 044 / - - C

IMDS DOCUMENTATION RULE FOR RENAULT SUPPLIERS

Renault Automobiles Standardisation
DQ-EDP / Department 67250

This document is to be considered as a whole, the parts of which must not be separated.

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FIRST ISSUE

July 2008	- - -	This issue originates from draft NC 2008 0499 / - - -.

REVISIONS

November 2011	- - A	This issue originates from draft NC 2011 0845 / - - - .
January 2014	- - B	This issue originates from draft NC 2014 005 / - - - .
May 2014	- - C	This issue originates from draft NC 2014 0312 / - - - .

REFERENCED DOCUMENTS

Standards	:	00-10-415, 00-10-050.
EC guidelines	:	2000/53/CE, 2005/64/CE, 1907/2006, 2009/425
Other regulations	:	ISO 1043 / ISO18064/ ISO 1629.

Follow-up of the document

Version	Document revision date	Author	Summary of major changes
1.0	03/01/2006	Renault DIMat	Creation of the document
2.0	23/07/2007	Renault DIMat	Update
2.1	19/09/2008	Renault DIMat	Update
2.2	15/09/2010	Renault DIMat	Update
3.0	18/08/2011	Renault DIMat	Field experience taken into account Anticipative lists taken into account
4.0	02/01/2014	Renault DE-TC	Update to IMDS 8.0. Controls evolution with Matsub taken into account.
5.0		Renault DEA-TC	Integration of the semi-components

This version of the document is 5.0. Be sure that you have the latest version. The latest version is available on:

- Renault's supplier portal (https://suppliers.renault.com/ ou http://suppliers.renault.enxo.org)
- IMDS portal (www.mdsystem.com), IMDS Information pages / Section "Help" / Section "FAQ"/ Category "OEM Specific Info" / Renault"

This document refers to the English version of IMDS; the French version is also available.

Objectives of the IMDS user guide

This is the Renault's suppliers reference document for the declaration of materials and substances attached to every part supplied to Renault (cf. Renault general prescriptions 00-10-415), standard available on the Renault's suppliers portal. The weights, the materials and the substances for all the constituents of the part have to be declared according to the standard 00-10-050 "Prohibited or restricted substances – Lists and declaration modes" through the IMDS system.

Renault objectives in IMDS

The environmental regulatory requirements quickly change and we need to have the knowledge of the material and substances of the parts (Directive "End of Life Vehicle" - 2000/53/EC, directive certification of homologation - 2005/64/EC, Reach regulation - 1907/2006/EC).

To comply with these rules and their possible evolutions, Renault has to have information about materials and substances of all the materials composing parts of the vehicle.
Therefore, Renault requests the list of all substances composing a material, including these that are or not regulated.

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1. USE OF IMDS

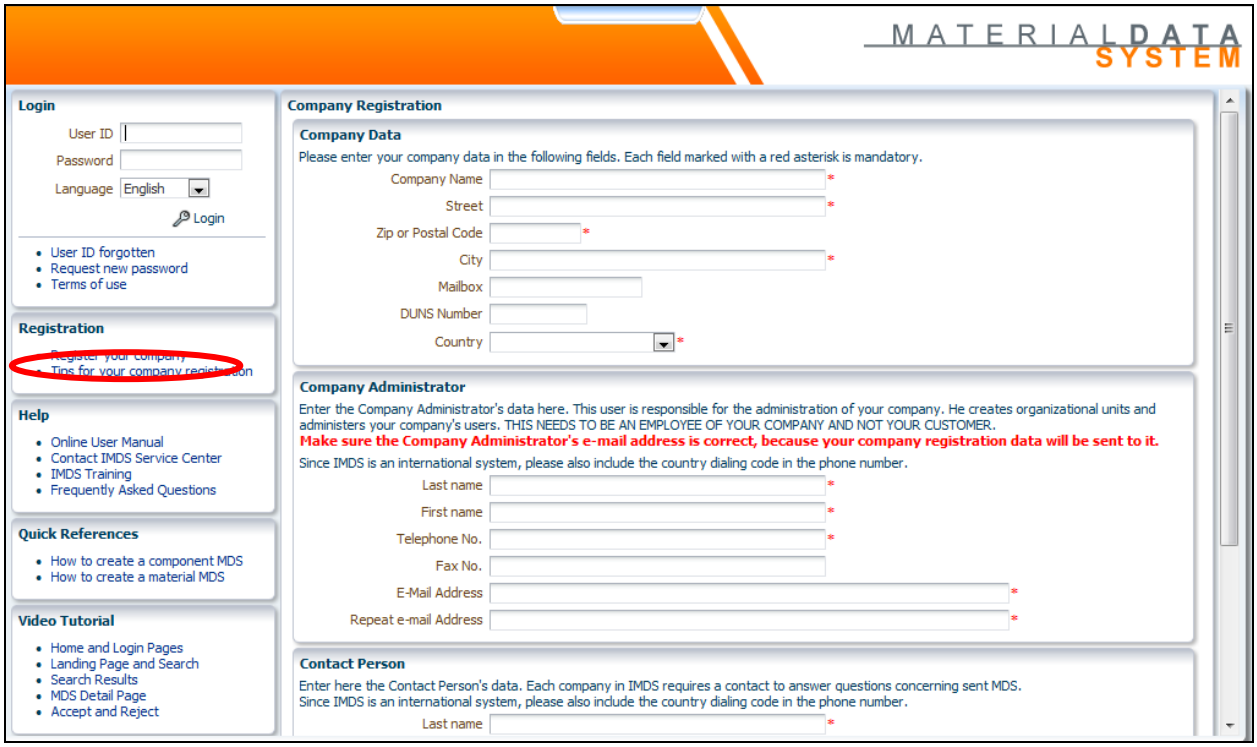
IMDS can be accessed through internet on: www.mdsystem.com

1.1 REGISTER TO IMDS

When a user wishes to use IMDS for the first time, it is necessary for him to obtain a user name and a password at IMDS (these accesses are independent of Renault).

- If the company is already registered in IMDS: ask for the creation of a personal access to your company's IMDS administrator. The access is strictly personal, and the Renault's materials and substances declaration process requires a rigorous completion of your personal information (including e-mail address).

- If your company is not yet registered in IMDS: follow the registration procedure described in the document "IMDS User Manual", paragraph 2.2. You can reach the registration page on "IMDS Information Pages" / section "IMDS login"/ "Register your company":


MATERIALDATA SYSTEM
Login
User ID
Password
Language English
Login
User ID forgotten
Request new password
Terms of use
Registration
Tips for your company registration
Help
Online User Manual
Contact IMDS Service Center
IMDS Training
Frequently Asked Questions
Quick References
How to create a component MDS
How to create a material MDS
Video Tutorial
Home and Login Pages
Landing Page and Search
Search Results
MDS Detail Page
Accept and Reject
Company Registration
Company Data
Please enter your company data in the following fields. Each field marked with a red asterisk is mandatory.
Company Name
Street
Zip or Postal Code
City
Mailbox
DUNS Number
Country
Company Administrator
Enter the Company Administrator's data here. This user is responsible for the administration of your company. He creates organizational units and administers your company's users. THIS NEEDS TO BE AN EMPLOYEE OF YOUR COMPANY AND NOT YOUR CUSTOMER.
Make sure the Company Administrator's e-mail address is correct, because your company registration data will be sent to it.
Since IMDS is an international system, please also include the country dialing code in the phone number.
Last name
First name
Telephone No.
Fax No.
E-Mail Address
Repeat e-mail Address
Contact Person
Enter here the Contact Person's data. Each company in IMDS requires a contact to answer questions concerning sent MDS.
Since IMDS is an international system, please also include the country dialing code in the phone number.
Last name

For all questions related to registration, user ID, password or connection problems, you can contact the French hotline at +33 1 57 32 48 56 or by e-mail (imds-helpdesk-emea@hp.com).

1.2 IDMS INFORMATION PAGES

IMDS Information Pages are available at the following Internet address:
https://public.mdsystem.com/web/imds-public-pages
The Information Pages enable IMDS users to be informed about the evolutions of the system and about rules interpretations. In particular, you can refer to Frequently Asked Questions (FAQ) of IMDS Information Pages in the "Help" menu.

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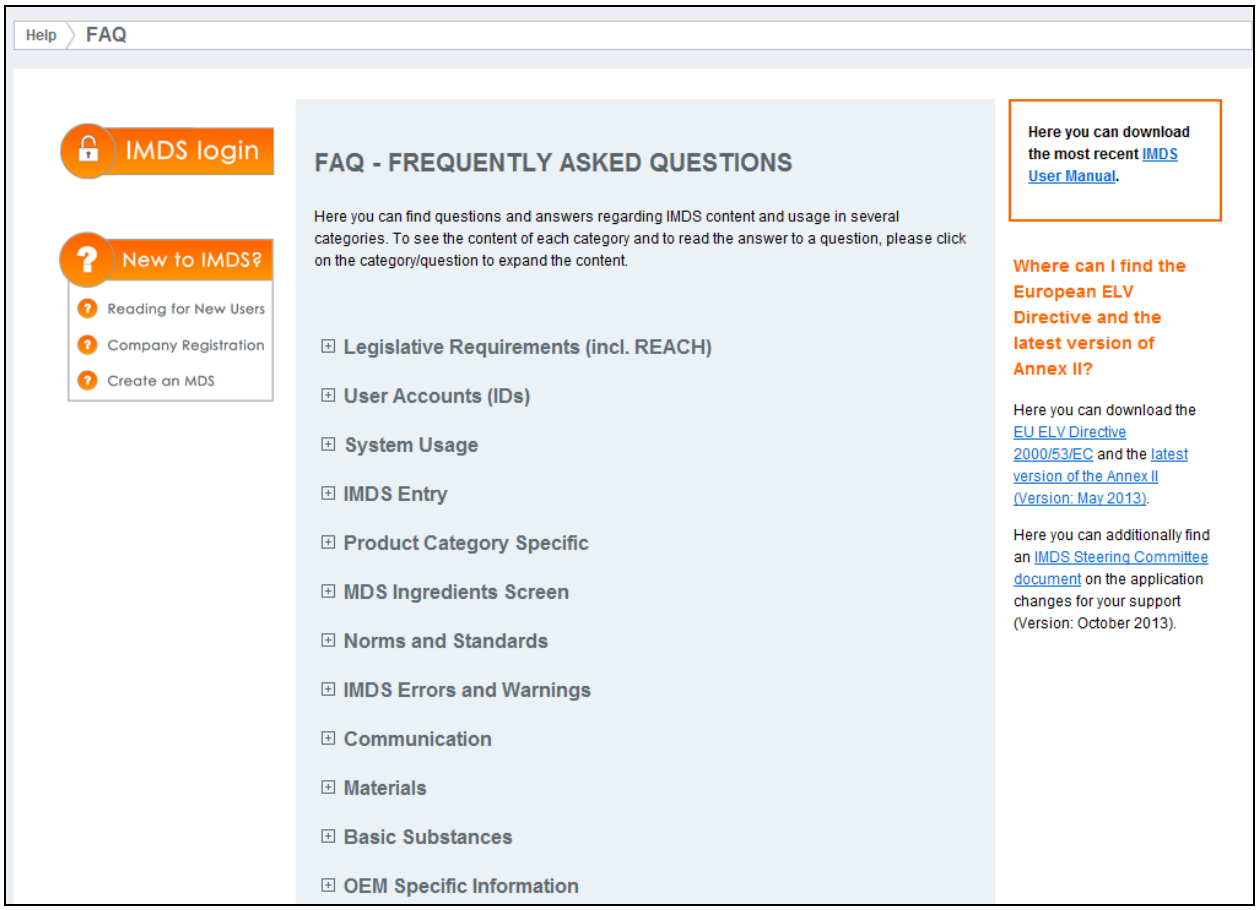
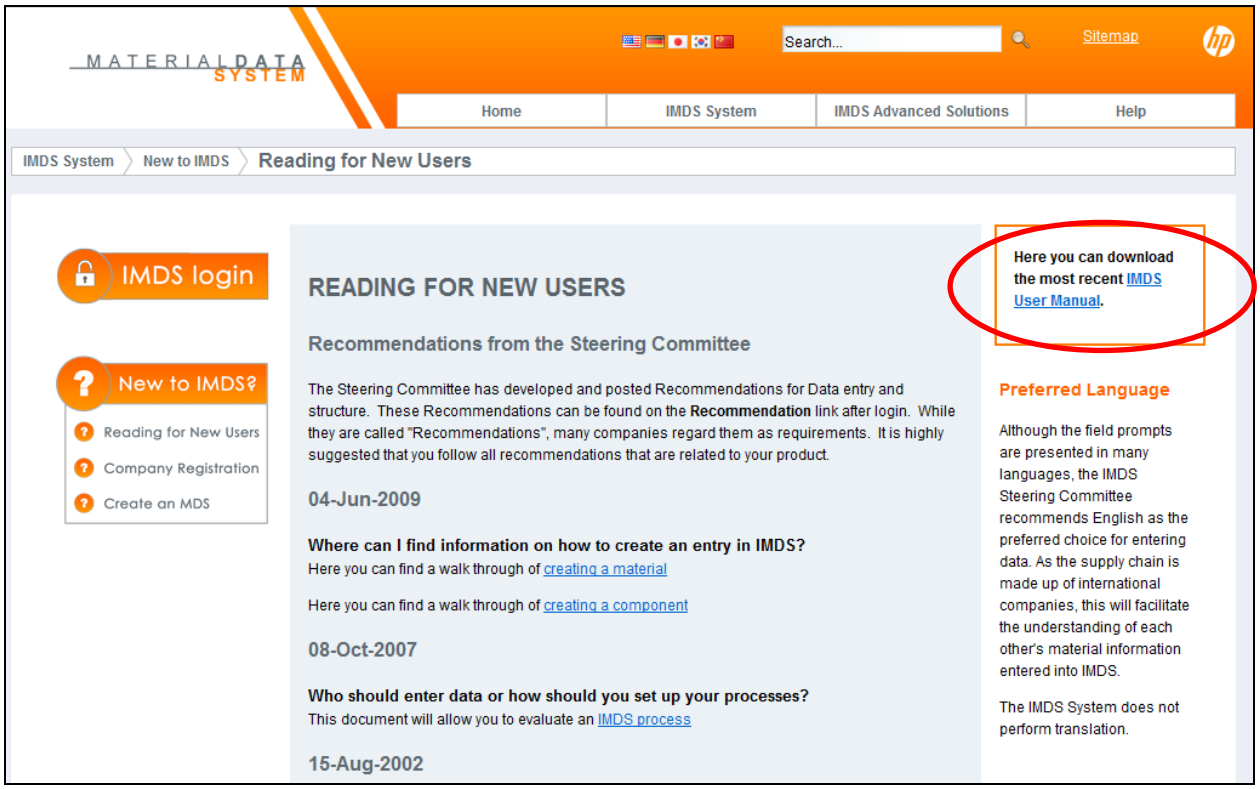

Help
FAQ
IMDS login
New to IMDS?
Reading for New Users
Company Registration
Create an MDS
FAQ - FREQUENTLY ASKED QUESTIONS
Here you can find questions and answers regarding IMDS content and usage in several categories. To see the content of each category and to read the answer to a question, please click on the category/question to expand the content.
Legislative Requirements (incl. REACH)
User Accounts (IDs)
System Usage
IMDS Entry
Product Category Specific
MDS Ingredients Screen
Norms and Standards
IMDS Errors and Warnings
Communication
Materials
Basic Substances
OEM Specific Information
Here you can download the most recent IMDS User Manual.
Where can I find the European ELV Directive and the latest version of Annex II?
Here you can download the EU ELV Directive 2000/53/EC and the latest version of the Annex II (Version: May 2013).
Here you can additionally find an IMDS Steering Committee document on the application changes for your support (Version: October 2013).

1.3 IMDS TRAINING

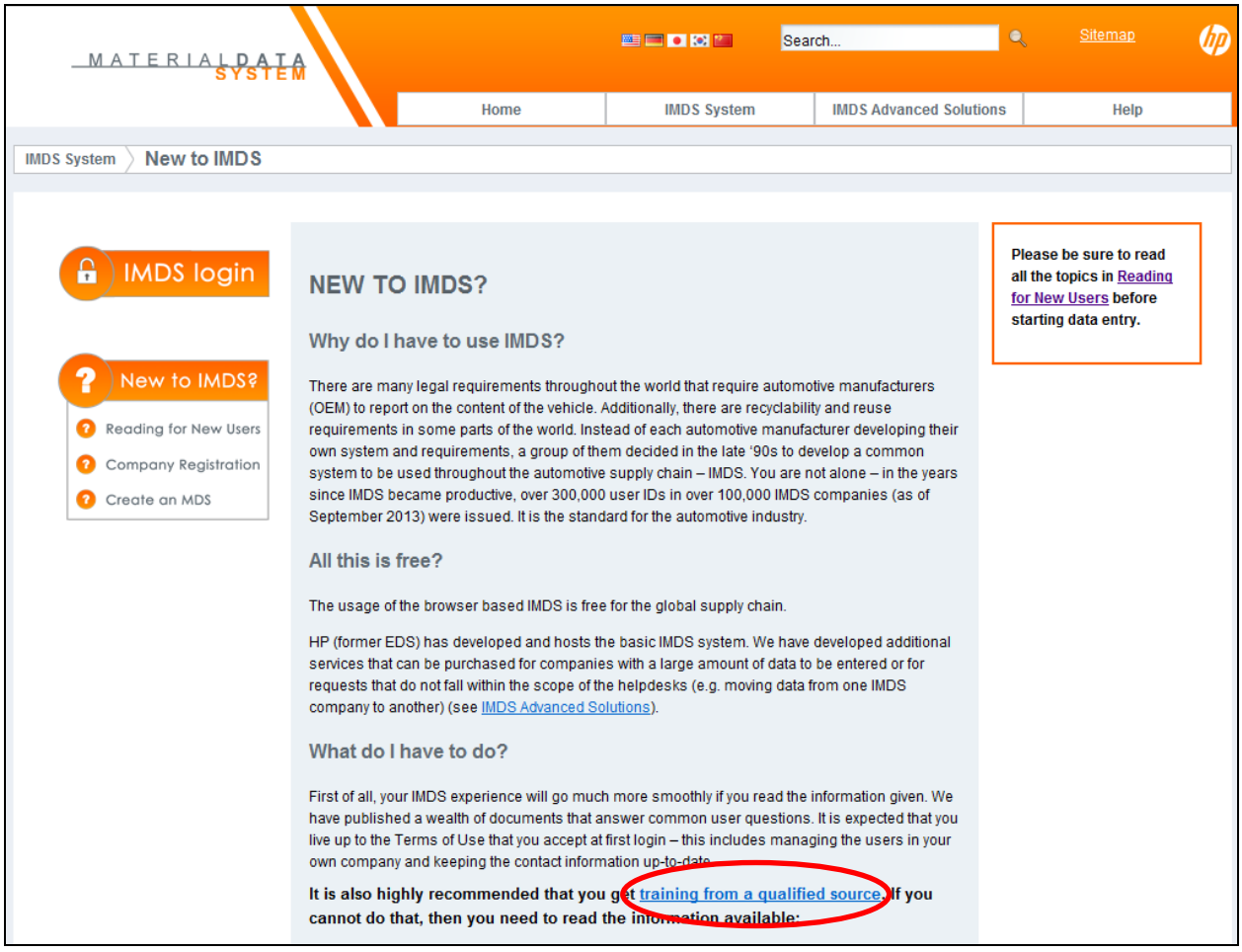
The so-called « IMDS user manual » document is available on IMDS public pages. It details the functionalities and the way to administrate IMDS system.

This IMDS user manual (PDF format) is available on:

- IMDS Public pages / Section “New to IMDS?” / category “Reading for new users” / right-hand side menu


MATERIALDATA SYSTEM
Search...
Sitemap
Home
IMDS System
IMDS Advanced Solutions
Help
IMDS System
New to IMDS
Reading for New Users
IMDS login
New to IMDS?
Reading for New Users
Company Registration
Create an MDS
READING FOR NEW USERS
Recommendations from the Steering Committee
The Steering Committee has developed and posted Recommendations for Data entry and structure. These Recommendations can be found on the Recommendation link after login. While they are called "Recommendations", many companies regard them as requirements. It is highly suggested that you follow all recommendations that are related to your product.
04-Jun-2009
Where can I find information on how to create an entry in IMDS?
Here you can find a walk through of creating a material
Here you can find a walk through of creating a component
08-Oct-2007
Who should enter data or how should you set up your processes?
This document will allow you to evaluate an IMDS process
15-Aug-2002
Here you can download the most recent IMDS User Manual.
Preferred Language
Although the field prompts are presented in many languages, the IMDS Steering Committee recommends English as the preferred choice for entering data. As the supply chain is made up of international companies, this will facilitate the understanding of each other's material information entered into IMDS.
The IMDS System does not perform translation.

There are various trainings at IMDS to go deeper in details.
For more information: IMDS Information Pages / Section "New to IMDS" or direct link https://public.mdsystem.com/web/imds-public-pages/imds-training-courses.

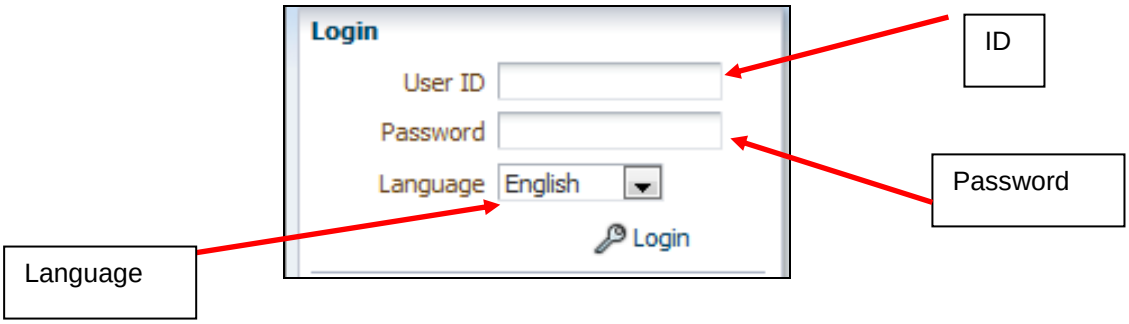

MATERIALDATA SYSTEM
Search...
Sitemap
Home
IMDS System
IMDS Advanced Solutions
Help
IMDS System
New to IMDS
IMDS login
New to IMDS?
Reading for New Users
Company Registration
Create an MDS
NEW TO IMDS?
Why do I have to use IMDS?
There are many legal requirements throughout the world that require automotive manufacturers (OEM) to report on the content of the vehicle. Additionally, there are recyclability and reuse requirements in some parts of the world. Instead of each automotive manufacturer developing their own system and requirements, a group of them decided in the late '90s to develop a common system to be used throughout the automotive supply chain – IMDS. You are not alone – in the years since IMDS became productive, over 300,000 user IDs in over 100,000 IMDS companies (as of September 2013) were issued. It is the standard for the automotive industry.
All this is free?
The usage of the browser based IMDS is free for the global supply chain.
HP (former EDS) has developed and hosts the basic IMDS system. We have developed additional services that can be purchased for companies with a large amount of data to be entered or for requests that do not fall within the scope of the helpdesks (e.g. moving data from one IMDS company to another) (see IMDS Advanced Solutions).
What do I have to do?
First of all, your IMDS experience will go much more smoothly if you read the information given. We have published a wealth of documents that answer common user questions. It is expected that you live up to the Terms of Use that you accept at first login – this includes managing the users in your own company and keeping the contact information up-to-date.
It is also highly recommended that you get training from a qualified source. If you cannot do that, then you need to read the information available:
Please be sure to read all the topics in Reading for New Users before starting data entry.

Moreover, independent consultants offer guidance services on the organisation to put in place in the company in order to document efficiently the materials and substances declarations. This helps improve efficiency and gain time.

1.4 CONNECT TO IMDS

It is necessary to have a user name and a password (cf. paragraph registration) to use IMDS. IMDS homepage can be found at the following URL: http://www.mdsystem.com/

To reach IMDS screen connection, click on the icon Connexion of the homepage. A new Internet page opens and the connection screen opens: enter your user name and password, choose your language and click on the button "Login".

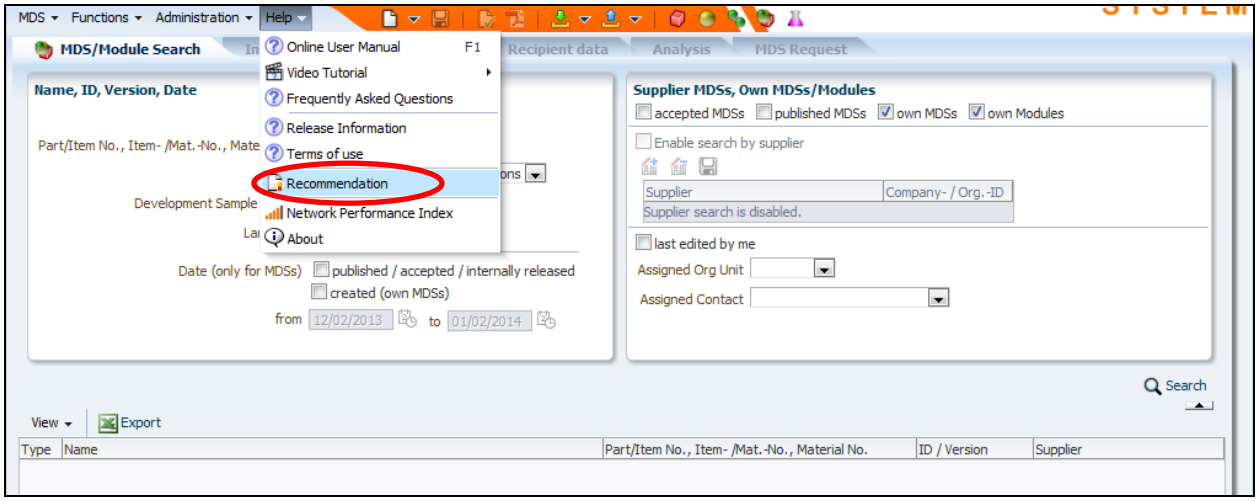


In case of difficulty, a French hotline is made available by IMDS, from Monday to Friday from 8.00 to 16.30, on +33 1 57 32 48 56 or by e-mail (imds-helpdesk-emea@hp.com). This hotline is meant for questions related to the connection to IMDS and to the usage of IMDS functionalities. For any other problem (in particular related to Renault specificities), write to the address imds@renault.com.

1.5 IMDS RECOMMENDATIONS

The users of IMDS agreed on rules concerning the completion / definition / structure of the MDS. Please carefully read these rules in order to avoid MDS rejection for non-compliance reasons.

IMDS recommendations are available once connected to the IMDS system. They are downloadable from the help menu, "Recommendation" of IMDS application.



A document in French summarizing IMDS recommendations is available on Renault's supplier portal and on IMDS portal (IMDS public pages / Section "FAQ" / category "OEM Specific Info" / "Renault"). This document does not replace the IMDS reference documents.

2. STRUCTURE OF AN MDS: ESSENTIAL REMINDERS

A MDS (Material Data Sheet) is a declaration of materials and substances. It appears in IMDS as a tree structure. The tree structure gives information about the structure (decomposition into elementary pieces) and the composition of every part or material delivered to Renault.

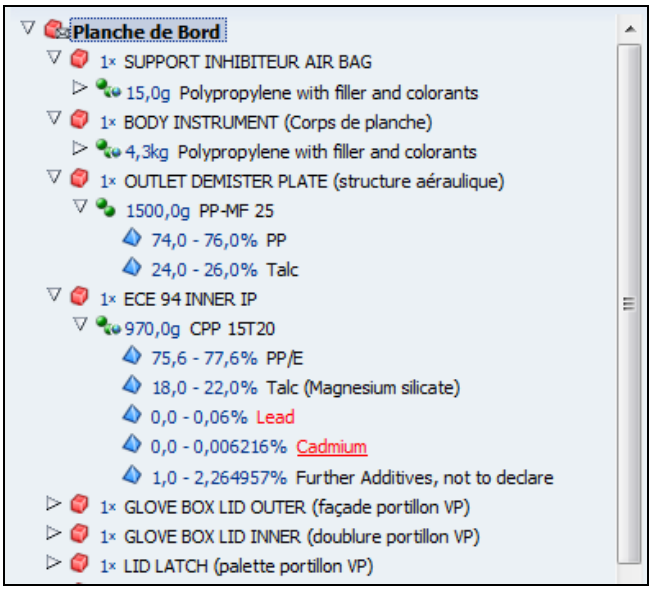


Planche de Bord
1× SUPPORT INHIBITEUR AIR BAG
15,0g Polypropylene with filler and colorants
1× BODY INSTRUMENT (Corps de planche)
4,3kg Polypropylene with filler and colorants
1× OUTLET DEMISTER PLATE (structure aéraulique)
1500,0g PP-MF 25
74,0 - 76,0% PP
24,0 - 26,0% Talc
1× ECE 94 INNER IP
970,0g CPP 15T20
75,6 - 77,6% PP/E
18,0 - 22,0% Talc (Magnesium silicate)
0,0 - 0,06% Lead
0,0 - 0,006216% Cadmium
1,0 - 2,264957% Further Additives, not to declare
1× GLOVE BOX LID OUTER (façade portillon VP)
1× GLOVE BOX LID INNER (doublure portillon VP)
1× LID LATCH (palette portillon VP)

2.1 COMPONENT / SEMI-COMPONENT / MATERIAL / SUBSTANCE

The component, depicted by , is used to describe the classification of a part, i.e. the breakdown of the part into elementary sub-components. When the component is at the top of the tree structure, it represents the part delivered to Renault as it is found in the vehicle.

The semi-component, depicted by . Is used to describe a generic supply like a steel coil or a pipe supplied by rolls. This supply is afterwards reworked in the Renault plant: for example the pipe is cut to the proper length.

A material, depicted by , is used to describe the chemical composition of a material. Each component of the lowest level comprises one or many homogenous materials, i.e., a material uniform in the space, which shows elements that are all identical (e.g. cover material, screw material, each layer of a surface treatment). The part has to be broken down to the homogenous or single material.

A material has to be broken down into substances and 100% of the substances present in a material have to be declared.
NOTE: It is possible to use “Joker” substances at the quantity of 10% of the total weight, at the most, in the material breakdown. However, be careful, these “Jokers” do not ensure material compliance in the long run. Sheets containing jokers must be frequently verified or updated. It is strongly advised to choose the system of confidential substances. Moreover, jokers are only authorised when the substances are not to be declared according to the Renault standard 00-10-050. If substances from standard 00-10-050 are present in the material, they must be declared through IMDS.

The substances, depicted by , are material constituents. They are chemical elements, components at natural state or components originating from a manufacturing process (e.g. Iron, Carbon and Silicon for a steel; PP and Titanium dioxide for a polypropylene). An almost-exhaustive list of substances, defined by IMDS, is the basis for the declarations.
The substances to be declared correspond to the substances which remain in the vehicle when it comes out of the assembly chain. For example, a paint supplier has to declare the composition of the dry paint; a sheet metal supplier, the composition of degreased sheet metal.

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2.2 TREE STRUCTURE

Different types of “nodes” (component, semi-component, material, substance) should not appear at the same classification level. The main component can be broken down either into materials or into sub-components then into materials but not both.

Example: a metal with coating is not a homogenous material. The metal and the coating are two different materials. They can be directly linked to a component or a semi-finished component.

2.3 SEMI-COMPONENTS

2.3.1 Semi-components directly sent to Renault

Renault asks its suppliers of semi-components to document their decomposition in material and substances into IMDS and to send them to Renault.

2.4 MATERIALS

A material is characterised by its normalised description, its trade reference and its composition in substances.

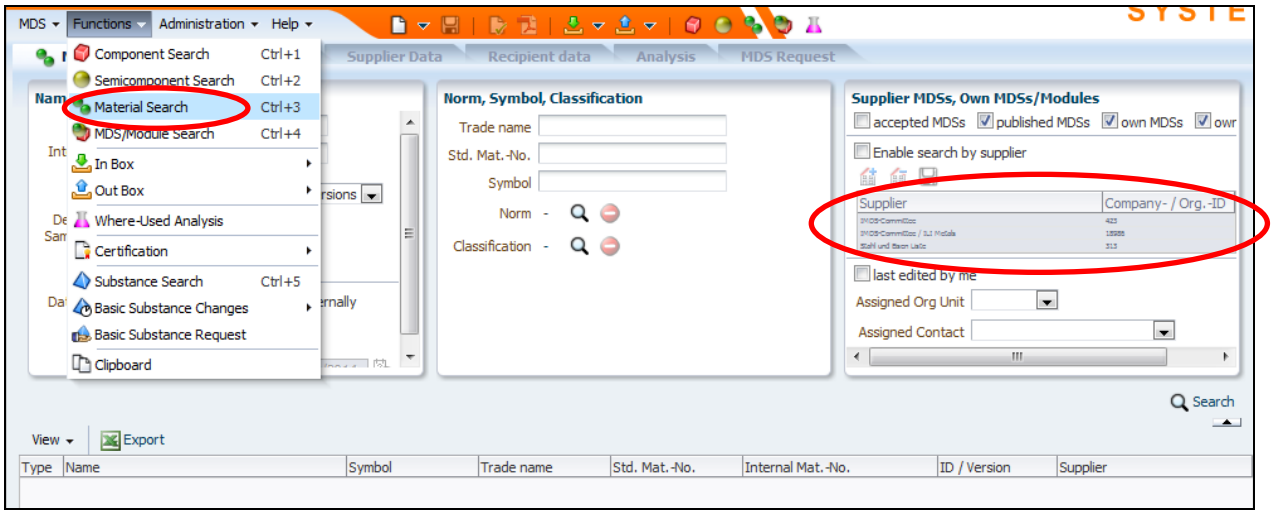
2.4.1 Materials directly sent to Renault:

Renault asks its suppliers of materials to document their decomposition in substances into IMDS and to send them to Renault. The published material data sheets of materials do not guarantee the compliance with Renault 00-10-050 standard.

2.4.2 Materials in components or semi-components sheets

IMDS standard sheets describe certain materials; this is in particular the case for most metals. It is strongly advised to use standard sheets when they are available (refer annex II).
Material sheets that can be considered as standard are published by:

- IMDS Committee
- ILI Metals
- Stahl und Eisen.



When there is no standard sheet available, you have to use a MDS sent by your material supplier. You have to verify that substances declared in the material are really the used ones.

CAUTION: One can find many data of questionable quality published in IMDS, do not use them, else your sheet will be rejected. THE PUBLICATION IS NOT A QUALITY INDICATOR.

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2.5 DECLARATION OF SUBSTANCES

Materials have to be broken down into substances, the breakdown should include the main material or the elements for an alloy but also possible additives of all types, the sum of the ratios of the declared substances have to be 100%.

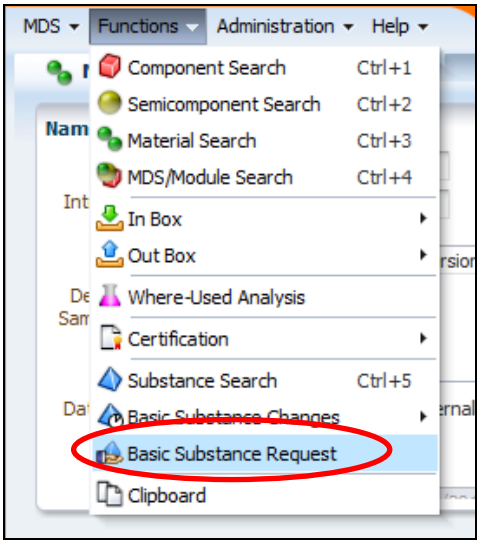
2.5.1 Confidential substances and Jokers

However, the substances for which the declaration is not mandatory (except SVHC, NGO, and GADSL) can be marked “confidential”. In this case, the supplier documents the substance in the material and ticks the box “confidential”. This substance is then replaced by **** for all other users, except the users assigned by the author of the sheet as “trusted users”. The latter are the only ones to see the information. It is **not** possible to download confidential data from the sheet, even for the end user. It is **not** possible to copy the sheet and to find the initial data.

It is not possible to hide black substances information.

2.5.2 Addition of new substances

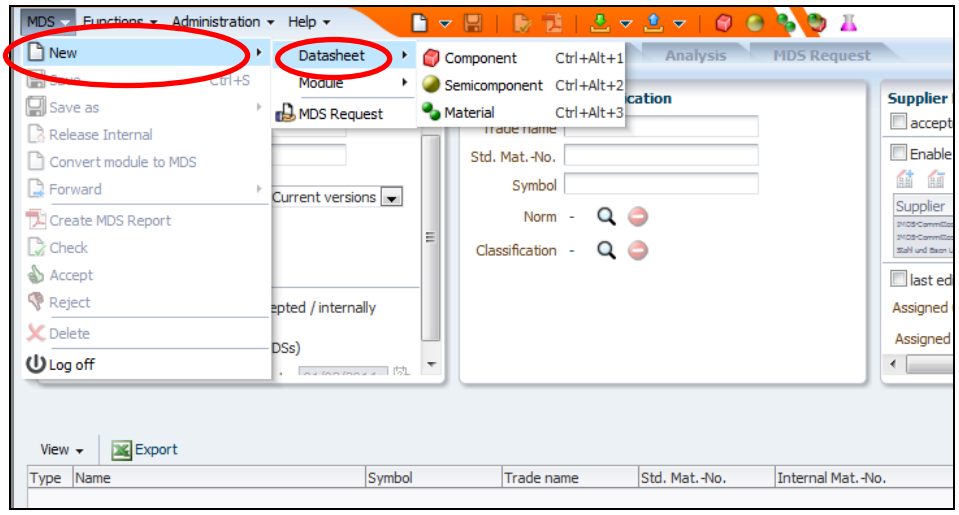
HP handles the list of the basic IMDS substances; a user cannot add a substance by himself. If a substance does not exist in IMDS, the supplier can request its creation by HP by calling the IMDS hotline or through the menu “basic substance request”.
HP has to validate the request. The list of basic substances is updated once a month.



3 MDS DOCUMENTATION

3.1 MENU FOR CREATING A MDS

After identification, a MDS can be created by choosing “MSD”, then “New” and “Datasheet” (a “module” cannot be sent to Renault). You can create three types of MDS: “component”, “semi component”, or “material”. In this section, we detail how to fill in these three types of MDS.



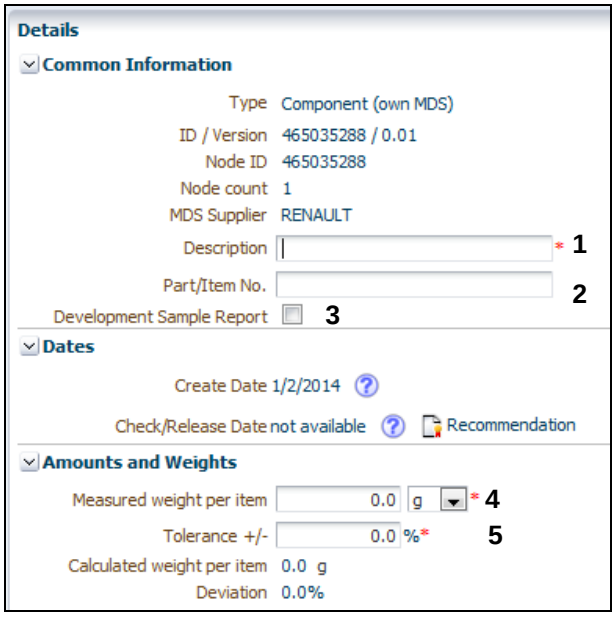
3.2 COMPONENT DOCUMENTATION

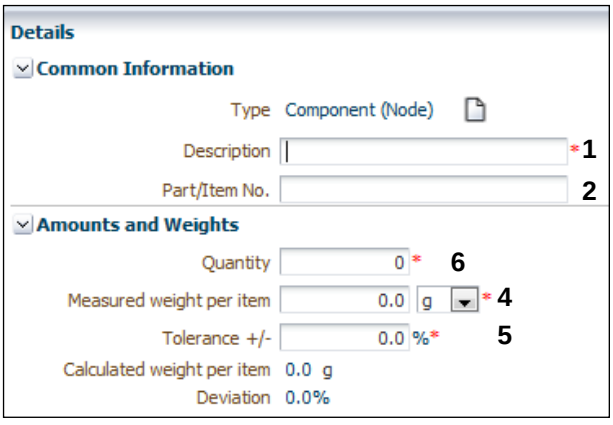
All standard IMDS functionalities can be used (refer § 1.3 “IMDS Training” and §1.5 “IMDS Recommendations”).

Note: before creating a « component » type MDS, make sure that all the materials that you will use already have an MDS:

- MDS of standard material
- MDS of your material supplier
- MDS to be created from before-hand for the materials that you manufacture. In this case, you have to start with “making it internally available”. For this, first of all create your material MDS, enter the supplier’s information, then select “Release internal” in the section “recipient’s data”.

Component with MDS attached	Component without MDS attached





	Field name	Field description	Declaration instructions	Example
1	<Description>	Corresponds to the name of the Renault part	Mandatory text in French	= Air filter
2	<Part/Item No.>	Corresponds to the Renault part reference	Two cases: * If the component is at the top of the structure: mandatory field 10 characters * Otherwise: optional Field	= 8200123456
3	<Development Sample Report>	Partial documentation of materials and substances	Ticking this case is prohibited	
4	<Measured Weight per item>	Measured weight of the whole part	Mandatory field Number	= 1500 g
5	<Tolerance>	Difference (in percentage) between measured weight and calculated weight	Mandatory field Number < 10% ; controlled during MDS sending phase	= 10%
6	<Quantity>	Occurrence of the sub-component within the part	Mandatory field (to be completed only for the sub-component) Number > 0	= 3

3.3 SEMI-COMPONENT DOCUMENTATION

All standard IMDS functionalities can be used (refer § 1.3 “IMDS Training” and §1.5 “IMDS Recommendations”).

Note: before creating a « semi-component » type MDS, make sure that all the materials that you will use already have an MDS:

- MDS of standard material
- MDS of your material supplier
- MDS to be created from before-hand for the materials that you manufacture. In this case, you have to start with “making it internally available”. For this, first of all create your material MDS, enter the supplier’s information, then select “Release internal” in the section “recipient’s data”.

Semi-component with MDS attached	Semi-component without MDS attached

Field name	Field description	Type de donnée à documenter	Example
<Article Name>	Correspond to the name of the semi-component	Texte obligatoire **en français**	Engine flywheel
<Item- /Mat.-No>	Corresponds to the Renault part number	Two cases: * If the semi-component is at the top of the structure: mandatory field 10 characters * Otherwise: optional Field	123118379R
<Development Sample Report>	Partial documentation of materials and substances	Ticking this case is prohibited	
<Specific weight>	Weight by length, area or volume	Mandatory field Number	= 1500 g/m3

3.4 MATERIAL DOCUMENTATION BY THE MATERIAL SUPPLIER

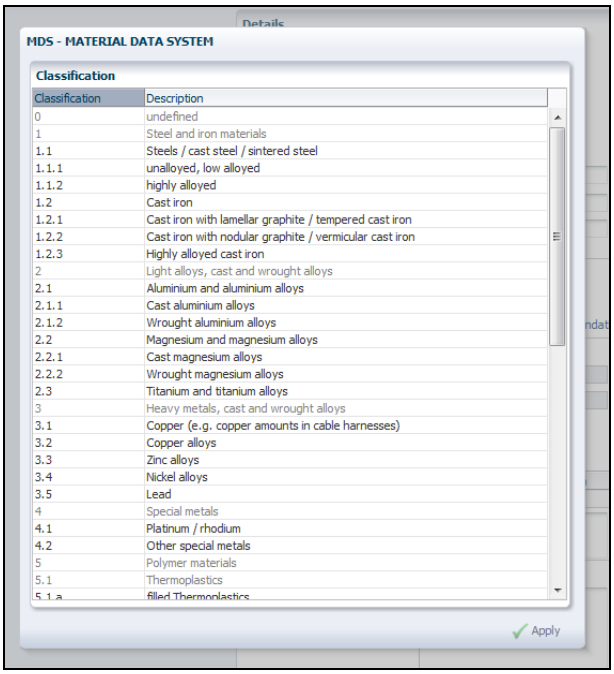
The kind of information to provide depends on the nature and the composition of the material.

When creating a “material” type MDS, you have to classify it.

There are nine different classes of material:

1	Steel and iron materials
2	Light alloys, cast and wrought alloys
3	Heavy metals, cast and wrought alloys
4	Special metals
5	Polymer materials
6	Process polymers
7	Other materials and material compounds (scope of mixture)
8	Electronics / electrics
9	Fuels and auxiliary means

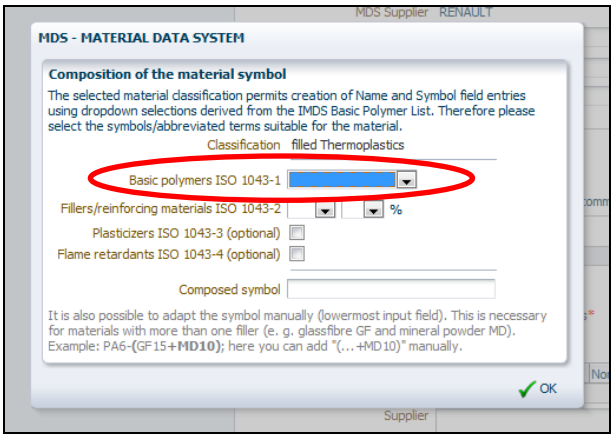
You have to choose the category of material and its sub-category:


MDS - MATERIAL DATA SYSTEM
Classification
Classification
Description
0 undefined
1 Steel and iron materials
1.1 Steels / cast steel / sintered steel
1.1.1 unalloyed, low alloyed
1.1.2 highly alloyed
1.2 Cast iron
1.2.1 Cast iron with lamellar graphite / tempered cast iron
1.2.2 Cast iron with nodular graphite / vermicular cast iron
1.2.3 Highly alloyed cast iron
2 Light alloys, cast and wrought alloys
2.1 Aluminium and aluminium alloys
2.1.1 Cast aluminium alloys
2.1.2 Wrought aluminium alloys
2.2 Magnesium and magnesium alloys
2.2.1 Cast magnesium alloys
2.2.2 Wrought magnesium alloys
2.3 Titanium and titanium alloys
3 Heavy metals, cast and wrought alloys
3.1 Copper (e.g. copper amounts in cable harnesses)
3.2 Copper alloys
3.3 Zinc alloys
3.4 Nickel alloys
3.5 Lead
4 Special metals
4.1 Platinum / rhodium
4.2 Other special metals
5 Polymer materials
5.1 Thermoplastics
Apply

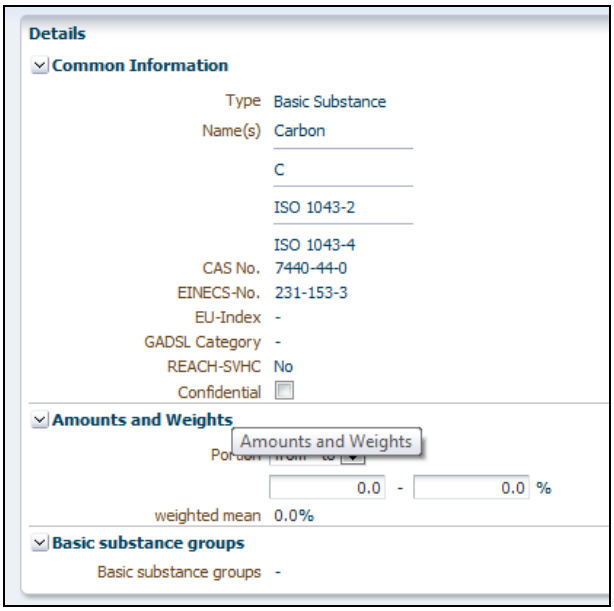
For polymers the symbol has then to be defined. The declaration of symbols for polymers and elastomers (refer annex I) is very important for Renault. The symbol has to correspond to the ISO standards in effect and to be the same in IMDS and on the drawing. IMDS proposes a pull down menu, which helps refering to the ISO standards 1043, 18064 and 1629. It is allowed to exceptionally change the symbol manually by using the field “standardised and mixed description”. However all basic symbols of ISO standards are listed in the pull -down menu.

Material symbols information are mandatory for the following material categories:

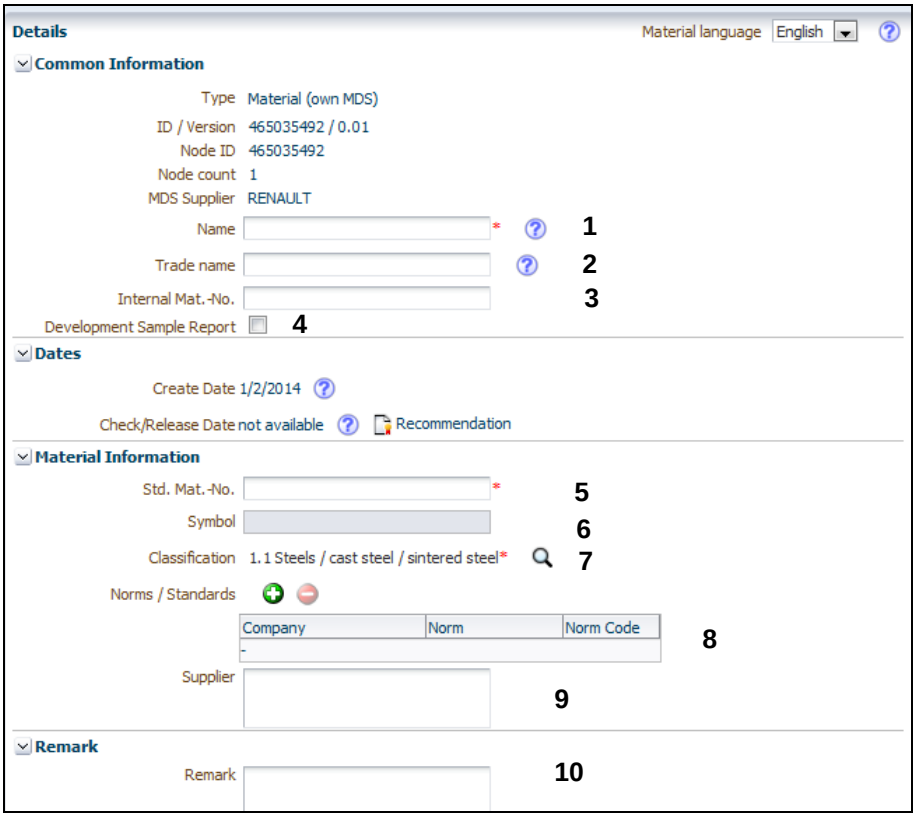
- 5.1.a filled Thermoplastics
- 5.1.b unfilled Thermoplastics
- 5.2 Thermoplastic elastomers
- 5.3 Elastomers / elastomeric compounds


MDS Supplier RENAULT
MDS - MATERIAL DATA SYSTEM
Composition of the material symbol
The selected material classification permits creation of Name and Symbol field entries using dropdown selections derived from the IMDS Basic Polymer List. Therefore please select the symbols/abbreviated terms suitable for the material.
Classification filled Thermoplastics
Basic polymers ISO 1043-1
Fillers/reinforcing materials ISO 1043-2
%
Plasticizers ISO 1043-3 (optional)
Flame retardants ISO 1043-4 (optional)
Composed symbol
It is also possible to adapt the symbol manually (lowermost input field). This is necessary for materials with more than one filler (e. g. glassfibre GF and mineral powder MD).
Example: PA6-(GF15+MD10); here you can add "(...+MD10)" manually.
OK
Supplier

Then add the substances using the blue triangle . One hundred percent of the substances composing the material have to be declared, including their proportions. For polymers, all the additives and residuals of expected process substances or likely to be present in the finished product have to be declared: dye, flame retardant, release agent, trace of catalyst or monomer, etc.



The material has then to be documented as following:



	Field name	Description of the field	Declaration instructions	Example
1	<Name>	Material name	Mandatory text	= EPDM
2	<Trade name>	Corresponds to the commercial trade reference of the material	Category 5: Mandatory text Otherwise: text wanted*	= AH452V-5623
3	<Internal Mat-No.>	Material number	Optional Text, not wanted	= 1.2057
4	<Development Sample Report>	Partial documentation of materials and substances	Ticking this case is prohibited	
5	<No. Mat. Std>	Standard material number (active for classifications 1, 2, 3 and 4)	Optional Text, not wanted	= EN-JN2039
6	<Symbol>	Standardized material name (active for classifications 5.1.b, 5.1.b, 5.2 and 5.3)	According to the IMDS list, mandatory	= PP-GF30
7	<Classification>	Classification of the material according to the IMDS list	Mandatory text	= Steels / cast steels / sintered steels
8	<Norms / Standards>	Standard to which the material refers	Mandatory text	
9	<Supplier>	Name of the material supplier	Optional Text but wanted	= Supplier of plastic X
10	<Remark>	Comments	Optional Text, not wanted	= Comments about the material EPDM

* Except for the materials recommended by IMDS.

See paragraphs 3.5 and 5.1 for more information about suppliers and recipient data.

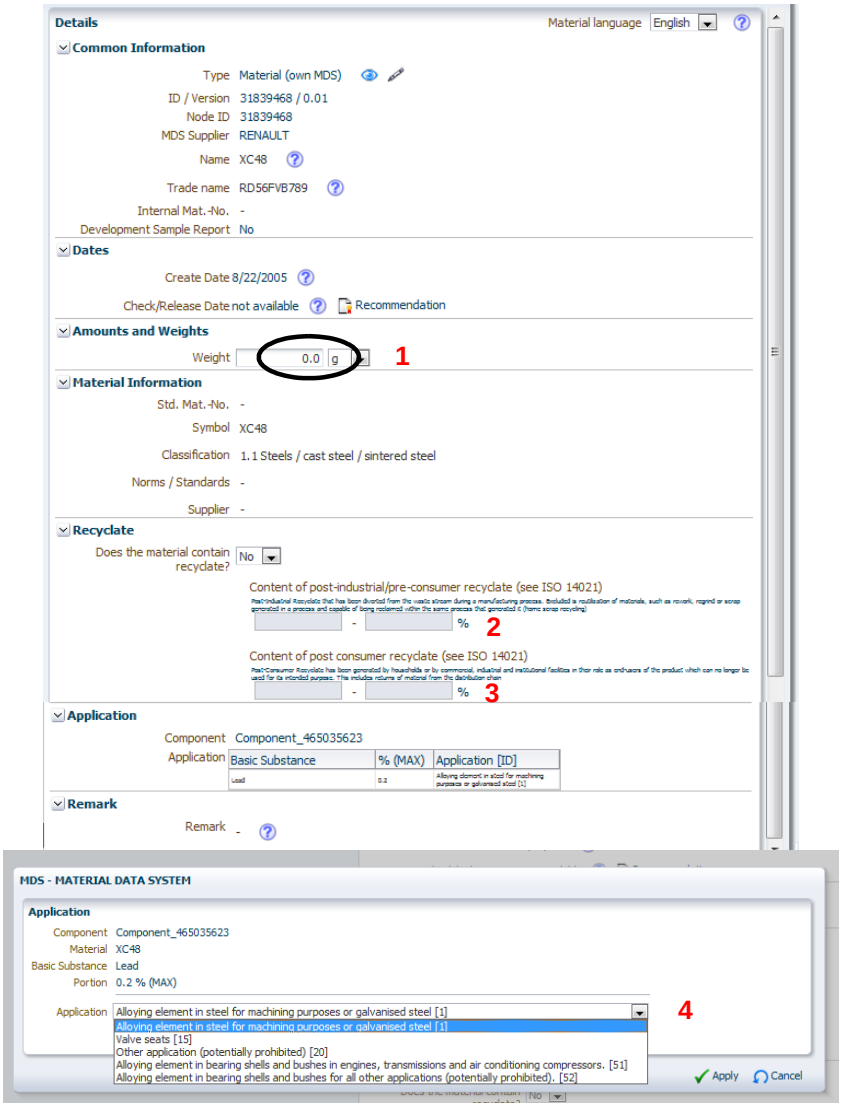
3.5 USAGE OF A MATERIAL IN A COMPONENT OR A SEMI-COMPONENT

The material MDS have to be identified from beforehand. When the user attaches the material to the component, he has to enter additional information. This information is relative to the usage of the material in the component.

None, one or two fields can appear when the material is attached to the component: the field “Recyclate” and /or the field “Application” :

☛ The “Recyclate" field appears when the material belongs to IMDS categories 1, 2, 3, 4 or 5. If the material contains recycled material, then at least one of the two fields, either “Contents of post industrial recycled” or “Contents of post consumer recycled” have to be filled.

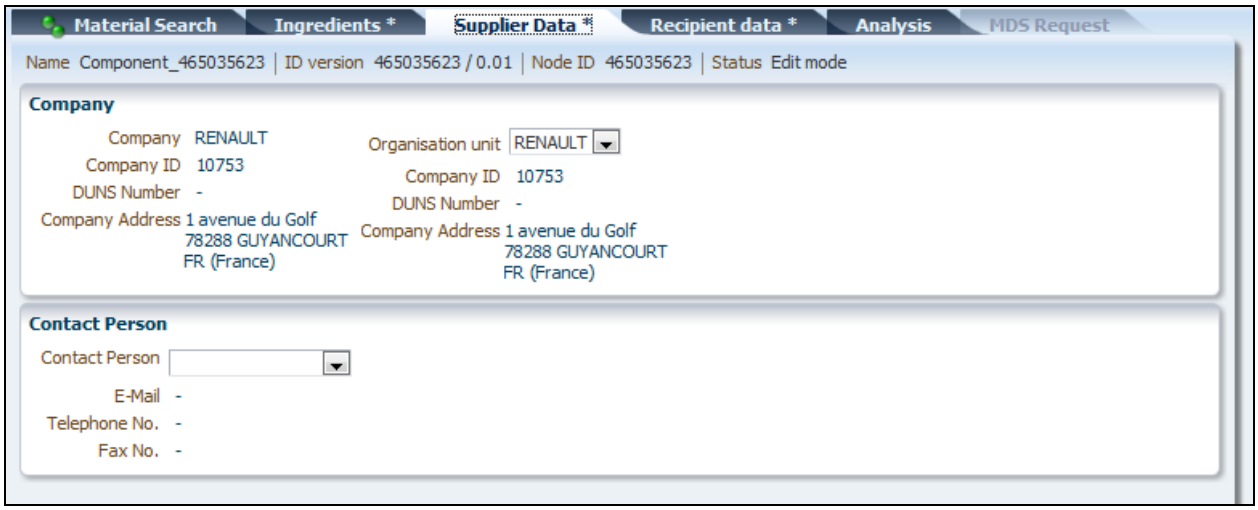
☛ The “Application” field appears when a substance used in the material is subject to a regulation. It allows you to precise the declaration of substances which benefit from exemptions, when they are present in concentrations below certain thresholds. For this purpose, refer to the 2000/53/CE guideline in effect: http://europa.eu/legislation_summaries/internal_market/single_market_for_goods/motor_vehicles/interactions_industry_policies/l21225_fr.htm.
The application code “Other application (potentially prohibited)” can be ticked when other proposed applications are irrelevant. Be careful: in this case the substances are not allowed, and the MDS will probably be rejected. The application code “Concentration within GADSL limits” corresponds to the note of the last version of the Annex II of the Directive 2000-53-CE. It is advised to tick this case when the material contains less than 0,1% of lead, hexavalent chromium or mercury and less than 0,01% of cadmium.



	Field name	Field description	Declaration instructions	Example
1	<Weight>	Material weight in the component	Mandatory number	= 4,9 g
2	<Content of post industrial/pre-consumer recyclate>	Percentage of pre-consumer recycled material	Mandatory number, if there is some recycled material in the component	= from 10 to 20 %
3	<Content of post consumer recyclate>	Percentage of post consumer recycled material	Mandatory number, if there is some recycled material in the component	= from 0 to 5%
4	<Application>	Application benefiting from an exemption regarding the substance in the material	According to choice proposed by IMDS	= Alloying element in steel for machining purposes or galvanized steel

3.6 “SUPPLIER’S DATA” DOCUMENTATION

Information about your company or other suppliers has to be filled in the page entitled “supplier data”.
You have to indicate the contact details of the person to contact in case of any questions regarding MDS; this person is not necessarily the author.

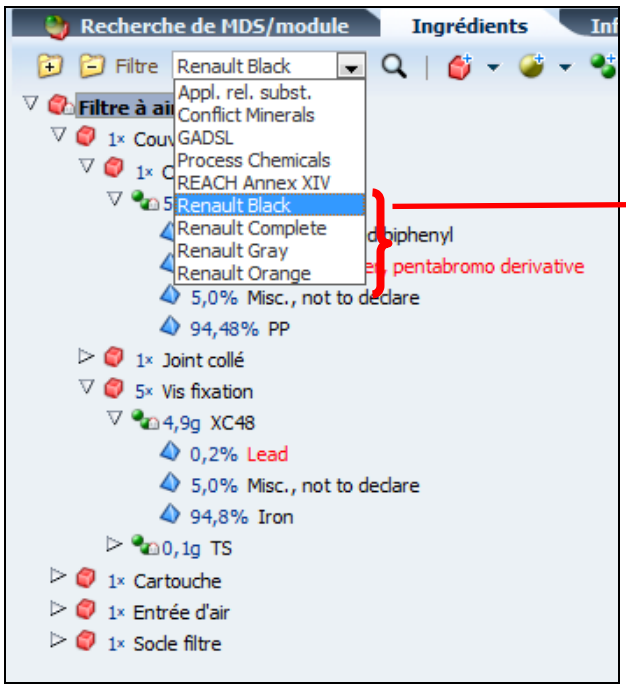


4 RENAULT SPECIFICITIES

4.1 RENAULT'S SUBSTANCES STANDARD 00-10-050 INTEGRATED IN IMDS

Every Renault supplier has to fill in information, complying with 00-10-050 standard at the index contracted in the RFQ. This standard classifies hazardous substance in three categories: N (black), G (grey) and O (orange). 00-10-050 standard substances list is available on Renault suppliers' portal and an excel file listing the different substances can be downloaded in the Renault's specific screen.

This standard appears in IMDS so that suppliers can see if the MDS they propose to Renault contains Black, Grey or Orange substances. In IMDS, the Renault's substances standard integration is visible when using the filters available in the MDS "Ingredients" chapter.



Four filters are available:
- Black substances
- Grey substances
- Orange substances
- Global list (which shows the Black, Grey and Orange substances)

When a filter is applied, the corresponding hazardous substances appear in red colour.

In this example, the "Renault Black" substances filter is selected: lead appears in red, as it is a black substance according to Renault 00-10-050 standard.

4.2 SEMI-COMPONENT

IMDS proposes the semi-component's structure, depicted by . This structure allows describing semi-finished products as metal sheet with coating or many-layered fabrics, which are neither homogeneous material nor compounds.

Semi-components type MDS have previously been not accepted by Renault but now Renault wishes to receive semi-component type MDS for the cases mentioned above.

4.3 "SAMPLE DEVELOPMENT REPORT" OPTION

When creating a MDS, it is possible to tick the box "Sample Development report" in chapter 1 "Ingredients". This enables you to create a MDS without giving the entire substances information. However Renault wishes to receive MDS containing 100% of substances information. Consequently, **do not tick the box "Sample Development report", else you will not be able to send your MDS to Renault.** Renault refuses all MDS where this box is ticked. **It is important that you transmit this information to your suppliers.**

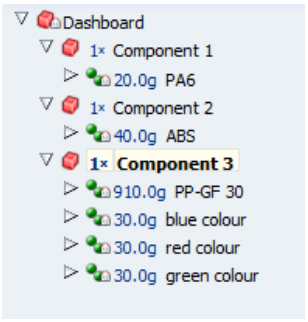
4.4 "AUTHORISED TRANSFER" OPTION

The option "authorised transfer" must remain as "Yes".

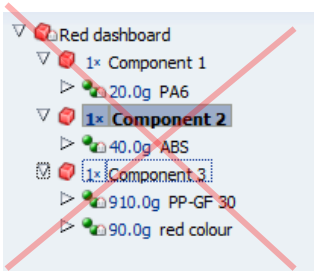
4.5 PARTS EXISTING IN SEVERAL COLORS

In an effort to avoid multiple declarations, for parts existing in several colours Renault only asks for one declaration. This declaration should contain the MDS of the neutral part and different colours (each colour's weight being divided by the number of colours).

Example : A part (here "Component 3") exists in 3 colours (here "blue", "red" and "green"). The material weights 1000 g, and there are 90 g of colours per part. In the correct MDS, all 3 colours are included:

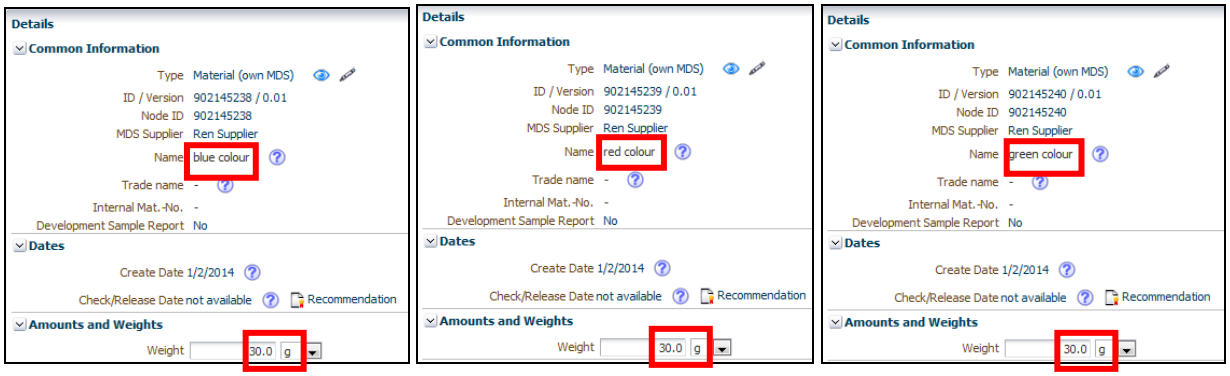


Right MDS



Wrong MDS

Here, each colour weights 90/3 = 30 g of the total colour:

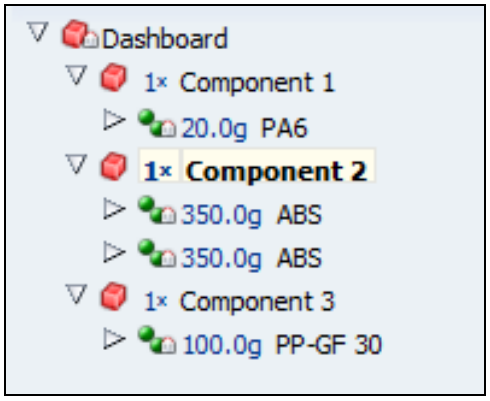


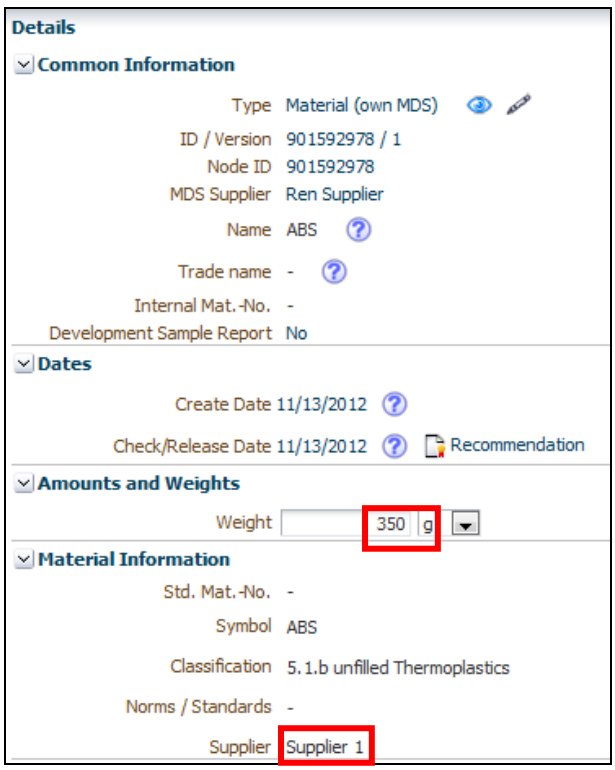
This type of documentation is asked for:

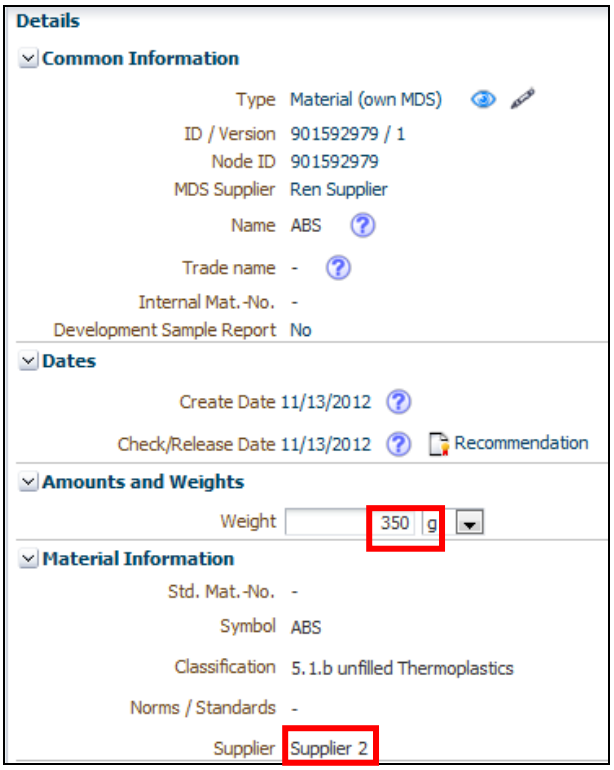
- coloured materials
- parts that can be coloured or not-coloured where the weight difference between the coloured part and the non-coloured part is less than 5%.

4.6 PARTS WITH DIVERSITY ON ONE MATERIAL

In order to avoid multiple sending, Renault requires a single declaration when a part shows diversity on a single material: the declared weight of each material provided by different suppliers must be divided by the number of suppliers.







4.7 WEIGHT

If the weight difference between the weight declared by the supplier in IMDS and the weight of the part known by Renault is too high, the MDS will be refused. The maximum authorised difference is 5%.

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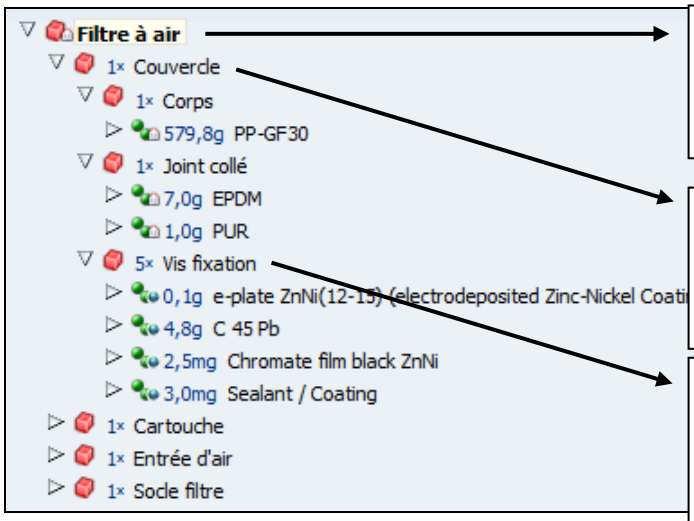
4.8 MDS EXAMPLE

The component ( ), which is at the top of the MDS tree structure must mandatorily represent the part supplied to Renault (having a Renault internal reference; for example 8200123456).



The air filter ('filtre à air') is a part possessing a Renault reference (ex: reference N ° 7756889441).

Hence, it is a component ( ).

The air filter top ('couvercle') is a subset of the air filter, hence it is a component ( ). No material is directly connected to it because this component is only made of components.

The screw ('vis fixation') is a subset of the air filter. Hence, it is a component ( ). It is made of 4 homogeneous materials ( ):

Screw body
- Steel : « C45 Pb »

Anti-corrosion treatment
- Electrodeposited Zinc : « e-plate ZnNi(12-15) (electrodeposited Zinc) »
- Passivation : « Chromate film black ZnNi »
- Top Coat : « Sealant / Coating »

The part's designations must be in English.

It is allowed to have fields in the following languages:
- French
- French with the translation in another language
- English with the translation in another language.

4.9 IN WHICH CASE DO YOU HAVE TO SUBMIT AN MDS?

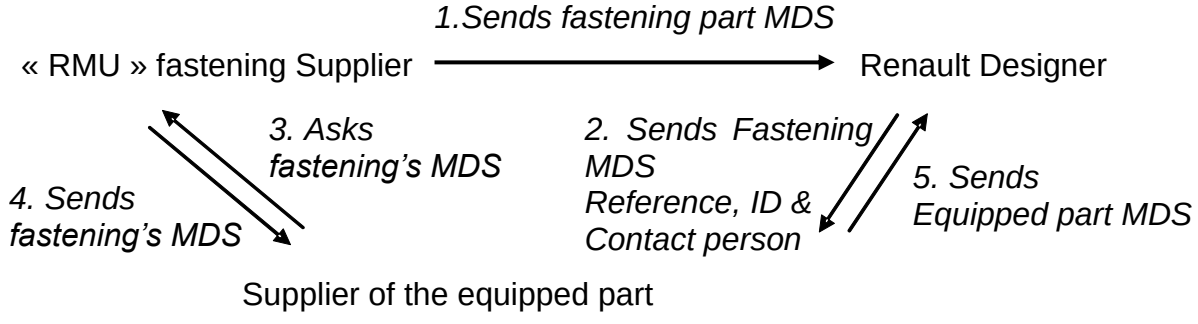
4.9.1 General case

Generally speaking every part or material supplied to Renault must be accompanied with an MDS. However, in some cases (e.g. software, etc.), MDSs are not required. The following table summarizes all use cases:

Part type	MDS required	MDS not required
Part (general case)	X	
Neutral part	X	
Equipped 1	X	
RMU (screw, fastening part, etc.)	X	
Raw parts	X	
Raw material	X	
Seat	Talk to designer	
Cables	Talk to designer	
Painted assembled body in white	Talk to designer	
Assembly 2		X
Neutral assembly		X
Color part		X
Profile		X
Software		X
Imprint		X
Supply No.		X
Virtual Reference		X
Services		X

4.9.2 Guided parts

For the parts guided by Renault (e.g. fastening parts) in equipped parts, the supplier of the equipped parts receives one -or several- MDS from the suppliers of the sub-parts. Renault designer provides the equipped part supplier with the following information: Renault part reference, MDS ID number and name of the fastener's contact person. The supplier of the equipped part can then contact the supplier of fastening part through the specified person. After reception of the MDS, he integrates it –or them- into the declaration of the equipped parts.


1.Sends fastening part MDS
« RMU » fastening Supplier
Renault Designer
3. Asks fastening's MDS
4. Sends fastening's MDS
2. Sends Fastening MDS Reference, ID & Contact person
5. Sends Equipped part MDS
Supplier of the equipped part

4.9.3 Identical MDS for multiple references

For the identical parts (e.g. right door and left door), there are many parts' references but only one MDS is sufficient. You can use the function "Pieces for which the MDS is valid", in Renault manufacturer screen (see 5.1.1).

[1] Equipped: Physical grouping of parts which do not all have a Renault reference
[2] Assembly: Physical grouping of parts that all have a Renault reference

4.9.4 Management of parts' modifications

If the part modification does not induce materials and substances modifications (composition or weight), it is not necessary to submit a new MDS.

5 TRANSMISSION AND VALIDATION OF THE MDS

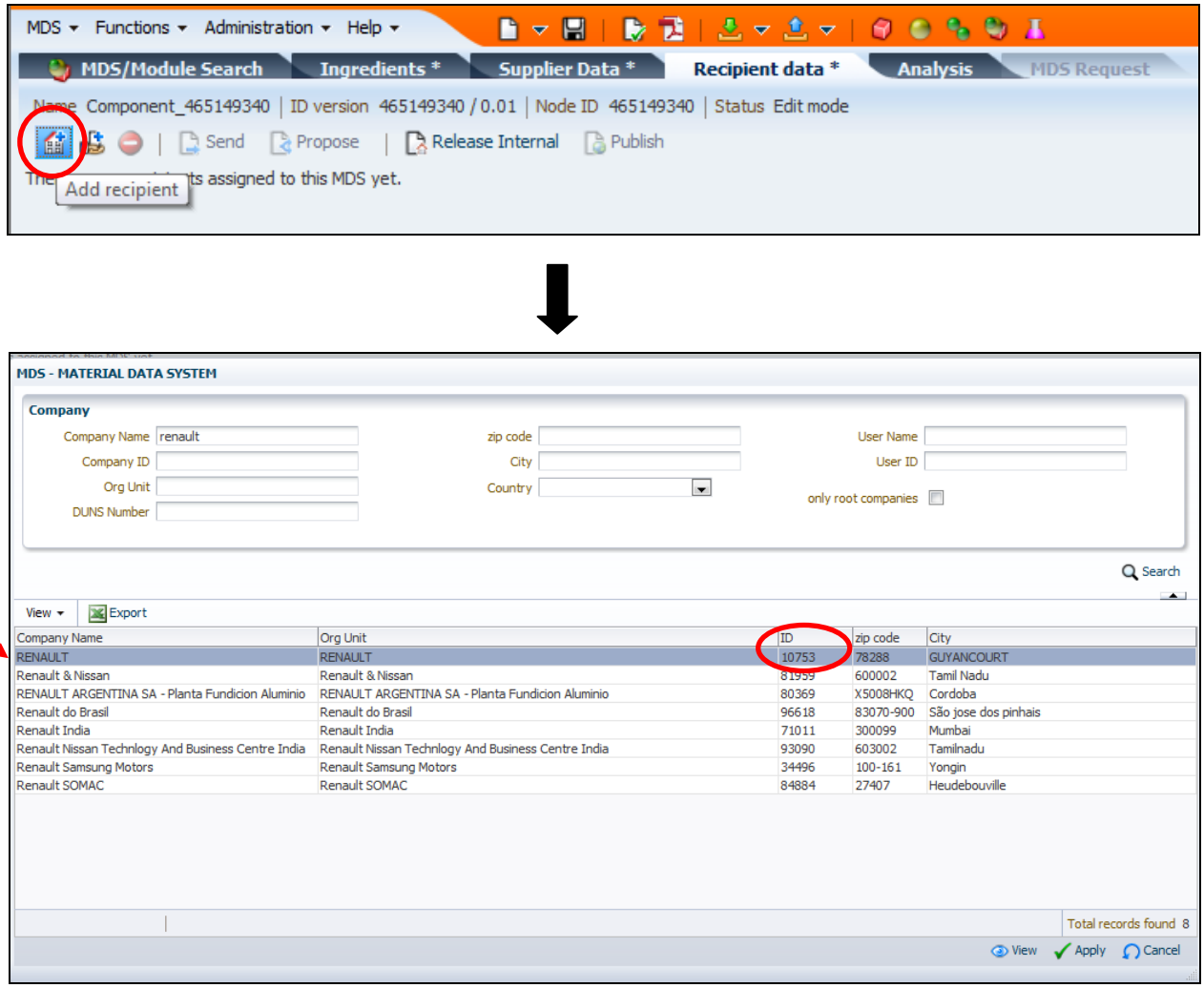
5.1 MDS TRANSMISSION

5.1.1 Renault car manufacturer screen

Renault's identification number in IMDS is 10753.

In order to manage IMDS data, Renault needs additional data. Consequently, an additional screen pops up when you propose an MDS to Renault.

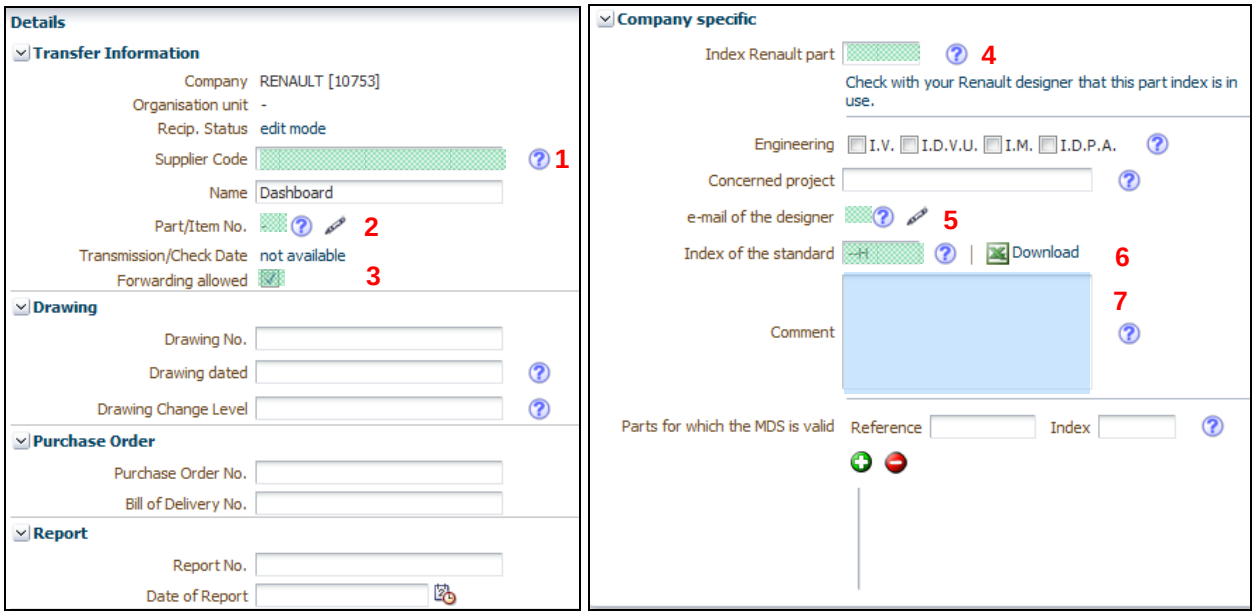
You can access Renault specific screen through "Recipient data" menu, after having clicked on the "Add" button and chosen "Renault" as car manufacturer, IMDS company ID 10753:


MDS
Functions
Administration
Help
MDS/Module Search
Ingredients *
Supplier Data *
Recipient data *
Analysis
MDS Request
Component_465149340 | ID version 465149340 / 0.01 | Node ID 465149340 | Status Edit mode
Send
Propose
Release Internal
Publish
Add recipient
MDS - MATERIAL DATA SYSTEM
Company
Company Name renault
Company ID
Org Unit
DUNS Number
zip code
City
Country
User Name
User ID
only root companies
Search
View
Export
Company Name | Org Unit | ID | zip code | City
RENAULT | RENAULT | 10753 | 78288 | GUYANCOURT
Renault & Nissan | Renault & Nissan | 81959 | 600002 | Tamil Nadu
RENAULT ARGENTINA SA - Planta Fundicion Aluminio | RENAULT ARGENTINA SA - Planta Fundicion Aluminio | 80369 | X5008HKQ | Cordoba
Renault do Brasil | Renault do Brasil | 96618 | 83070-900 | São jose dos pinhais
Renault India | Renault India | 71011 | 300099 | Mumbai
Renault Nissan Technlogy And Business Centre India | Renault Nissan Technlogy And Business Centre India | 93090 | 603002 | Tamilnadu
Renault Samsung Motors | Renault Samsung Motors | 34496 | 100-161 | Yongin
Renault SOMAC | Renault SOMAC | 84884 | 27407 | Heudebouville
Total records found 8
View
Apply
Cancel

In order to fill in this screen, you shall ask the designer the part's reference and index, and the e-mail address of the person who has to validate the MDS. Please carefully check the index with the designer when you propose the MDS.

The data contained in this screen are very important, as the MDS will be reviewed and validated by the Renault designer you are in contact with.

The car manufacturer screen for Renault visible hereunder.



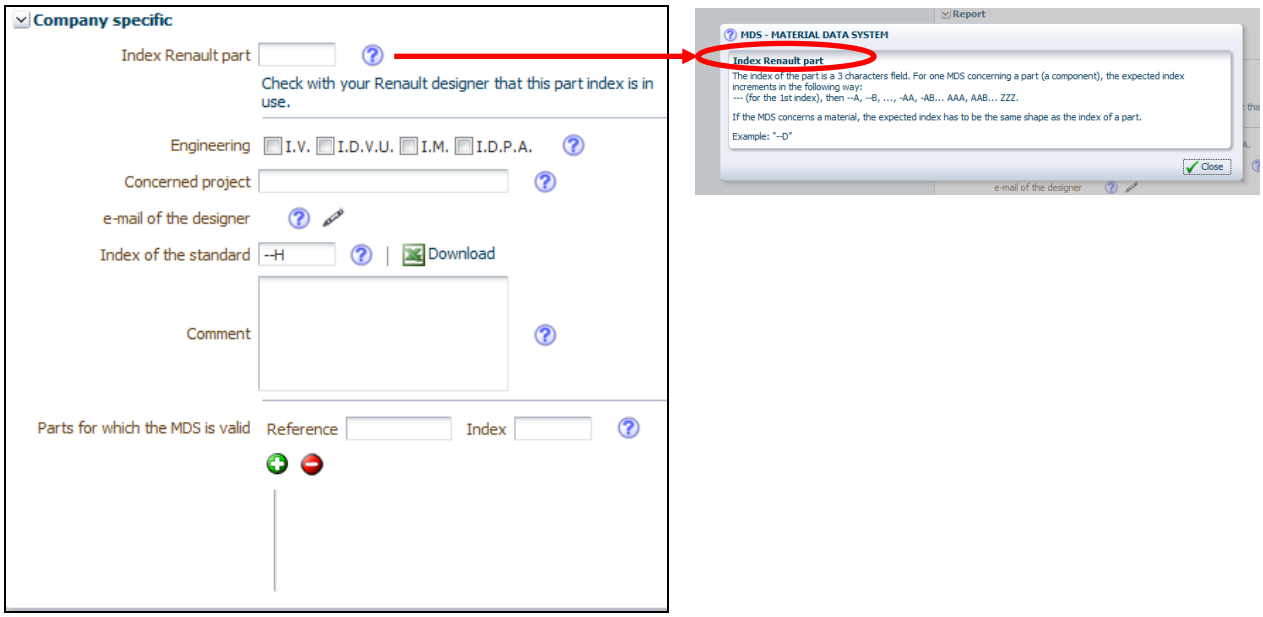
Mandatory fields

Optional fields

Fields not used by Renault

	Field name	Field description	Declaration instructions	Example
1	<Part/Item No.>	Corresponds to the Renault's reference of the part	Mandatory 10 characters	= 8200123456 ; APV7701450
2	<Supplier Code>	Account number (provided by Renault)	Mandatory 6 digits number	= 123456
3	<Forwarding allowed>	Agreement for the forwarding of the MDS	Tick	= ticked
4	<Index Renault part>	Renault part index	Mandatory 3 characters: '-' and alphanumeric characters ('A'→ 'Z')	= --D
5	<E-mail address of the designer>	E-mail address of Renault designer in charge of the MDS of the part	Mandatory text	= firstname.lastname @Renault.com
6	<Index of the standard>	Index of Renault 00-10-050 standard contracted in the RFQ	Mandatory 3 characters	=--G
7	<Comment>	Comments	Optional Text	= Comments about the part.

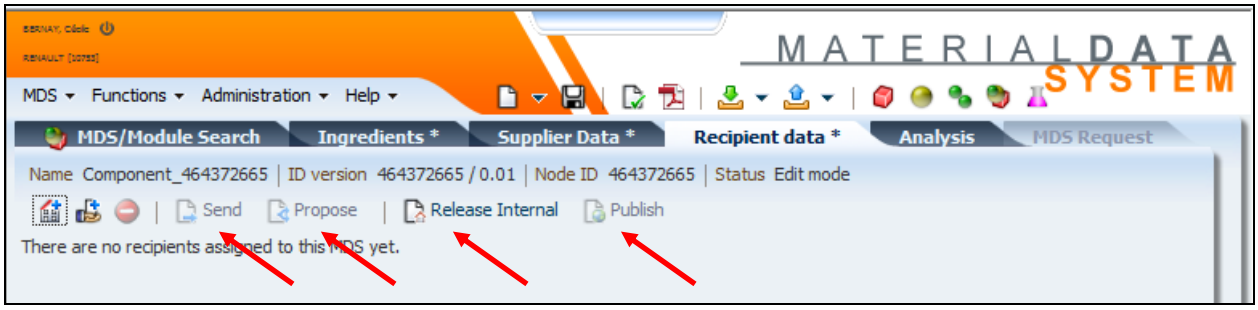
For more information and examples about the fields of Renault screen, simply click on the button to open a help sheet for the documentation of the corresponding field:



5.1.2 MDS Transmission

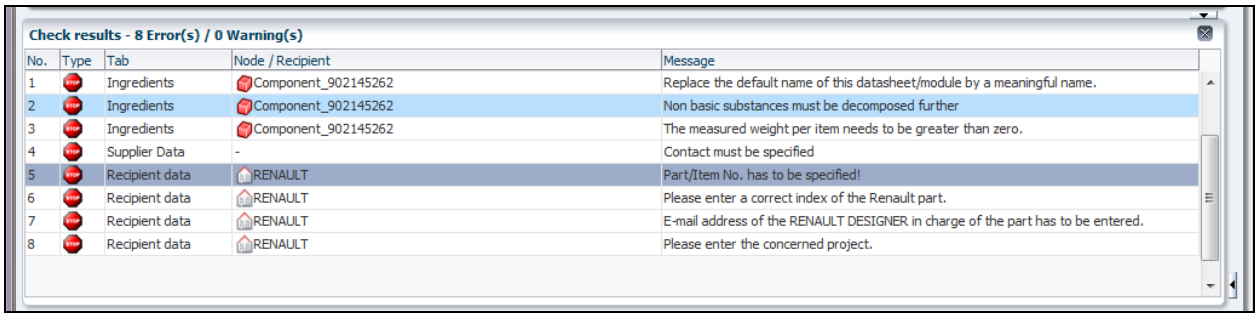
IMDS gives four sending possibilities:

- Send: pass on the MDS to the recipient (Renault for example).
- Propose: pass on the MDS to several recipients (you have to add several companies).
- Internal: publish the MDS for your company. You can use this function if you create a material MDS to be included into a component.
- Publish: give the MDS to all IMDS users (Renault will not consider your MDS in this case).



5.2 CHECK

At the time of MDS transmission, a list of errors and warnings appear.


Check results - 8 Error(s) / 0 Warning(s)
No. Type Tab Node / Recipient Message
1 Ingredients Component_902145262 Replace the default name of this datasheet/module by a meaningful name.
2 Ingredients Component_902145262 Non basic substances must be decomposed further
3 Ingredients Component_902145262 The measured weight per item needs to be greater than zero.
4 Supplier Data - Contact must be specified
5 Recipient data RENAULT Part/Item No. has to be specified!
6 Recipient data RENAULT Please enter a correct index of the Renault part.
7 Recipient data RENAULT E-mail address of the RENAULT DESIGNER in charge of the part has to be entered.
8 Recipient data RENAULT Please enter the concerned project.

You have to correct each line of error to be able to transmit the MDS.

If you have already selected Renault as the recipient of the sheet, the check will be done taking into account Renault's specific rules.

GUIDELINE
You can suggest to your suppliers to execute the following sequence:
Select Renault (ID 10753) as recipient / Use the IMDS check tool / Correct the detected problems / Remove Renault from recipients list.
In this way Renault's specific rules will be taken into account during the sheet automatic check.

5.3 MDS VALIDATION BY RENAULT

When a MDS is validated or rejected, the IMDS user is alerted in his IMDS personal profile. He needs to log on to IMDS and read the new messages.

In case of the sending of a big series of sheets, it is strongly advised to carry out a trial on one sheet, and wait for its validation. Do not send the other MDS until all the remarks are resolved.

5.3.1 Administrative data

Make sure to check description, part number, exact index, supplier code and recipient's e-mail before sending your MDS; in case of error the sheet will automatically be rejected. The norms associated to the materials have to be documented.

5.3.2 Undesirable substances

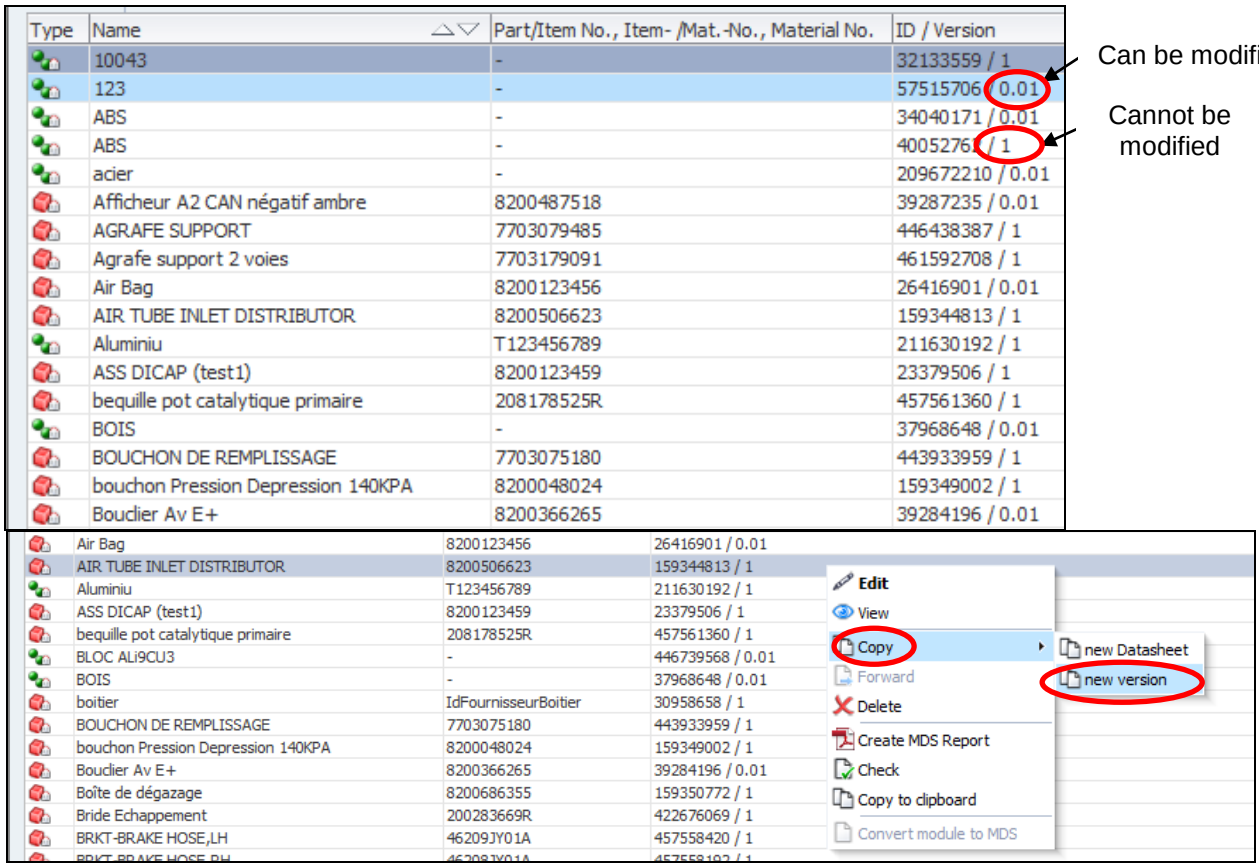
In case of unjustified presence of undesirable substances (black substances of the 00-010-050 standard or REACH regulation anticipative substances), the MDS will be rejected. In the case jokers and/or confidential substances are above 10% of the material content, the MDS will be rejected.
If necessary, make sure to fill in the "Application" details.

5.3.3 MDS tree

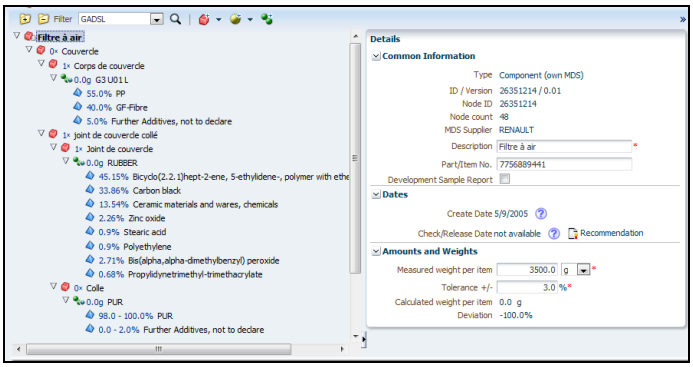
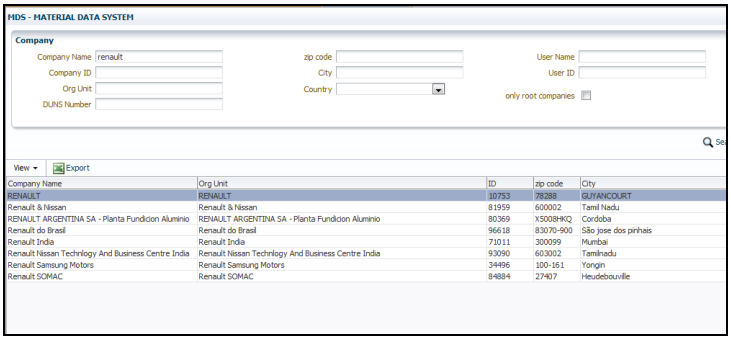
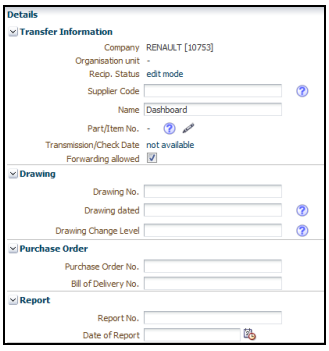
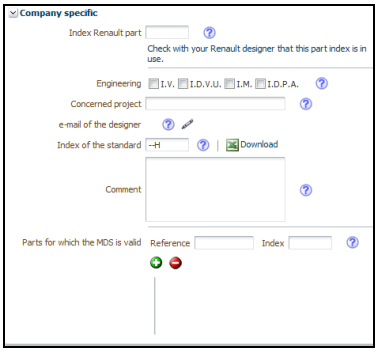
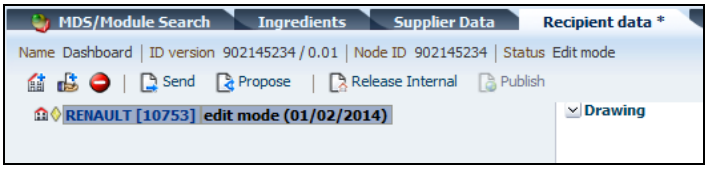
The same type of information must be present at a same MDS level.

5.3.4 Modifying an MDS:

A MDS with a whole number version can no longer be modified; you need to use the function “copy” / “new version” in order to change it to the following index.
A MDS with a decimal number version can be modified.


Type
Name
Part/Item No., Item- /Mat.-No., Material No.
ID / Version
10043 - 32133559 / 1
123 - 57515706 / 0.01
ABS - 34040171 / 0.01
ABS - 40052761 / 1
acier - 209672210 / 0.01
Afficheur A2 CAN négatif ambre 8200487518 39287235 / 0.01
AGRAFE SUPPORT 7703079485 446438387 / 1
Agrafe support 2 voies 7703179091 461592708 / 1
Air Bag 8200123456 26416901 / 0.01
AIR TUBE INLET DISTRIBUTOR 8200506623 159344813 / 1
Aluminiu T123456789 211630192 / 1
ASS DICAP (test1) 8200123459 23379506 / 1
bequille pot catalytique primaire 208178525R 457561360 / 1
BOIS - 37968648 / 0.01
BOUCHON DE REMPLISSAGE 7703075180 443933959 / 1
bouchon Pression Depression 140KPA 8200048024 159349002 / 1
Bouclier Av E+ 8200366265 39284196 / 0.01
Can be modified
Cannot be modified
Edit
View
Copy
Forward
Delete
Create MDS Report
Check
Copy to clipboard
Convert module to MDS
new Datasheet
new version

6 OVERVIEW OF THE RENAULT MDS MANAGEMENT PROCESS

Who does?	Task	Illustration
Designer or material technical father	.. Gives the supplier the references for which an MDS is required	Reference / index (part or material number)
Renault supplier	Creates an MDS corresponding to the part or semi-component or material supplied to Renault	
Renault supplier	Selects the car manufacturer Renault	
Renault supplier	Fills in Renault specific screen	 
Renault supplier	Sends the MDS to Renault via IMDS	
Designer or material technical father	Receives the file and accepts/rejects the MDS	

ANNEX I

Polymers' description

5.1.a filled Thermoplastics
ABS-GF X
PTFE-GF X
PET-GF X
POM-GF X
PP-GF X
PA6-GF X
PA11-GF X
PA12-GF X
PA66-GF X
PA66/6-GF X
PBT-GF X
PA6-MD X
PA11-MD X
PA12-MD X
PA66-MD X
PA66/6-MD X
P/E+EPDM-MD X
PP-MD X
PTFE-MD X
POM-MD X

5.1.b unfilled Thermoplastics			
ABS	PES	PEOX	PARA
ABS+PC	PPSU	PI	PEEST
ABS+PMMA	PSU	PIB	PEN
AES	PFEP	PPA	PTT
MABS	ETFE	PPS	PE
MBS	FEP	PVB	PE-HD
SAN	PFA	PVFM	PE-LD
ABA	PTFE	PVP	PE-LLD
ABAK	PVDF	SMA	E/P
SMS	PCTFE	S/MA	PE-C
MMABS	PAEK	SMAH	PE-LMD
ASA	PEEK	AEPDMS	PE-MD
CA	PEK	AEPDS	PE-UHMW
CAB	PEKEKK	AMMA	HDPE
CAP	PK	CSF	LDPE
CMC	P/E	EAA	LLDPE
CN	P/E+EPDM	EBA	UHMWPE
CTA	PA	EA	MDPE
MC	PA+PPE	EBAK	CPE
CEF	PA11	EMA	EPM
CP	PA12	PAK	PET
EC	PA6	PAN	PCT
PVC	PA66	PAR	PMMA
PVDC	PA66/6	PBN	PMMI
ACPES	PBT	PCCE	PMI
ACS	PBT+PET	PCL	POM
VCEMA	PC	PEUR	PP
VCEMAK	PESU	PIR	PP+EPDM
VCEVAC	EEA	PVAC	PP-E
VCMA	EEAK	PVOH	PP-HI
VCMAK	EVOH	PVAL	PP/E
VCMMA	LCP	PVK	PP+SEBS
VCOA	PAA	SI	HIPP
VCOAK	PAI	COC	PPE
VCVAC	PBAK	PDCPD	PS
VCVDC	PEI	PMP	

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5.2 Thermoplastic elastomers	5.4 Duromers		
TEEE	5.4.1 Polyurethane	5.4.2 Unsaturated polyester	5.4.3 Other duromers
TPC	PUREST	UP-GF X	CF
TPU	PUR-GF X		MF
PEBA	PUR-E		MP
TPA			MPF
SBS			MUF
SEBS			P-SI
SEPS			PF
TPS			UF
TPO			VE
TPV			PF-GF X
TPZ			

5.3 Elastomers / elastomeric compounds			
BIIR	EVM	FVMQ	PSBR
CIIR	GPO	FZ	PZ
CM	HNBR	NR	SIBR
CO	IIR	EPDM	XBR
CR	IR	ACM	XNBR
CSM	NBR	AEM	XSBR
ECO	SB	ANM	MQ
GECO	SBR	AU	PMQ
XCR	ABR	BR	VMQ
FEPM	IM	NBM	PVMQ
FFKM	AFMU	NIR	
EU	FMQ	PBR	
FKM	MSBR	EPM	

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ANNEX II

MDS of standard materials

The MDS to be used are the MDS published by the following suppliers:

- IMDS Committee, IMDS ID : 423
- IMDS Committee / ILI Metals, IMDS ID : 18986
- Stahl und Eisen List, IMDS ID : 313
- ZVEI-Rec019, IMDS ID 102677

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